

PRESSURE BASED SPONTANEOUS INFLATION INHIBITOR WITH PENILE PUMP IMPROVEMENTS

ABSTRACT

A pump assembly for a penile implant is provided having a mechanism which prevents spontaneous inflation of the cylinders implanted within the patient. The pump assembly has an actuating bar with ribs to enhance the spring force applied to a flow valve, a support structure to support and appropriately position the actuating bar, and a check valve made of metal with a segment covered with a plastic material. The preventative mechanism uses overpressure generated by the reservoir during unintentional compression to effectively seal the cylinders from unintended fluid flow. The prevention mechanism itself creates all necessary forces to prevent the undesired fluid flow to the cylinders. This is accomplished by incorporating appropriate mechanisms within the pump itself.